

# Forage Submission Form

**Customer Information**

Name: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 County: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

Date received: \_\_\_\_\_

**Payment Information – Office use only**

Amount Paid: \_\_\_\_\_ Date Paid: \_\_\_\_\_  
 Cash Billed: \_\_\_\_\_  
 Check #: \_\_\_\_\_ CC Approval #: \_\_\_\_\_  
 Receipt #: \_\_\_\_\_  
 IRIS DOC #: \_\_\_\_\_

Sample Name	Hay, Silage, or Haylage	Species Codes- See below	Clovers* <i>Yes or No</i>	NIRS \$17.00	Minerals \$20.00	Nitrates \$10.00	Ensiled pH \$7.00	Lab ID #- Office use only

**Species Codes- If not listed, please write in**

- |                                                                                                                                                                |                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>TF</b> Tall Fescue<br/> <b>OG</b> Orchardgrass<br/> <b>BG</b> Bermudagrass<br/> <b>AR</b> Annual Ryegrass<br/> <b>AL</b> Alfalfa<br/> <b>CO</b> Corn</p> | <p><b>SG</b> Small Grains<br/> <b>WA</b> Warm-Season Annuals<br/> <b>LG</b> Other Legumes<br/> <b>MG</b> Mixed Grasses<br/> <b>NG</b> Native Warm-Season Grasses</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

*\*Confirm if you have clovers in your forage sample*

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The University of Tennessee Institute of Agriculture collects and summarizes forage sample data for research and extension education purposes. By submitting you, or your agent agree to this action.

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# Forage Analysis Packages

For more information on how to use the Forage Submission Form, or how to submit a forage sample, please contact your local UT Extension office.

<b><i>NIRS- Near-Infrared Spectroscopy Analysis*</i></b>		<b>\$17.00</b>
Moisture- <i>as received</i>	Acid Detergent Fiber (ADF)	
Dry Matter (DM)- <i>as received</i>	Neutral Detergent Fiber (NDF)	
Ash	Lignin	
Crude Protein (CP)	<i>in-vitro</i> True DM Digestibility 48h (IVTDMD48h)	
Relative Forage Quality (RFQ)	Fructan	
Digestible Energy (DE)	Starch	
Total Digestible Nutrients (TDN)	Sugar (ESC)	
Net-Energy for Maintenance (NE <sub>m</sub> )	Water-Soluble Carbohydrates (WSC)	
Net-Energy for Gain (NE <sub>g</sub> )	Non-Structural Carbohydrates (NSC)	
Net Energy for Lactation (NE <sub>l</sub> )	Non-Fiber Carbohydrates (NFC)	
Calcium (Ca)		
Phosphorus (P)		
Magnesium (Mg)		
Potassium (K)		

<b><i>Minerals- Wet Chemistry</i></b>	<b>\$20.00</b>
Calcium (Ca)	
Phosphorus (P)	
Magnesium (Mg)	
Potassium (K)	
Sulfur (S)	
Copper (Cu)	
Zinc (Zn)	
Manganese (Mn)	
Iron (Fe)	
Boron (B)	

<b><i>Nitrates- Wet Chemistry</i></b>	<b>\$10.00</b>
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<b><i>Ensiled pH- Wet Chemistry</i></b>	<b>\$7.00</b>
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*\*All values reported on 100% DM Basis, unless otherwise noted.*

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# Instructions for Submitting Forage Samples

*For best results follow the sampling suggestions below.*

## Sample Size

- Approximately 1/2 gallon of sample should be sent for an adequate forage test. Plastic bags with zipper closures work great for this use.

## Sampling Technique

- **Hay** - Obtain samples from approximately 10 bales. Best samples are obtained using a core sampling probe. Check with your local UT Extension office about the availability of these samplers. For square bales, take one core from one end of each bale. For round bales, take a sample from each side of the bales. If grab samples are taken, be sure to obtain a representative sample as this method may not provide reliable results.
- **Silage or Haylage** - If haylage is in round bales, follow the same procedures as for round baled hay. If ensiled forage is chopped, then obtain 2-3 gallons of material from 5 to 15 places in the silo. For upright silos, run unloader and collect one sample per minute for several minutes. In both situations, mix all the collected material together, then fill 1/2 gallon sample bag with this mixture. Be sure to seal bag to ensure correct "as received" moisture determination.

## Sample Identification

- Use a permanent marker to write *Sample Name* on the bag. If more than one sample is being sent in, each will need a **unique** *Sample Name* on the *Forage Submission Form*.
- Verify that *Sample Name* is the same on sample bag and *Forage Submission Form*.
- To avoid delay in receiving your forage analysis results please print all information legibly, or use the fillable form provided.

## Mailing in Sample

- If samples are wet, please make sure the *Forage Submission Form* and payment are outside of the sample bag.
- Mailing Address: **Soil, Plant and Pest Center**  
**5201 Marchant Drive**  
**Nashville, TN 37211**

## Payment Information

- Payment can be made by check payable to "University of Tennessee". For your convenience, forage tests may be purchased online at: PLANTLAB.TENNESSEE.EDU
- Please do not send Cash in the mail.

## Results

- Forage analysis results will be delivered using the email address given on the *Forage Submission Form*.